

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-7. (Canceled)

8. (Previously Presented) A method comprising performing density gradient centrifugation on bone marrow; and isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml.

9. (Currently Amended) The method according to claim [[1]]8, wherein said performing uses an isotonic solution of Ficoll® or Percoll®.

10. (Currently Amended) The method according to claim [[2]]9, wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.

11. (Currently Amended) A mesenchymal stem cell obtained according to a method ~~of claim 8 comprising~~
~~performing density gradient centrifugation on bone marrow; and~~
~~isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml.~~

12. (Currently Amended) [[A]] ~~The mesenchymal stem cell obtained according to a method of claim [[9]]11 wherein said performing uses an isotonic solution of Ficoll® or Percoll®.~~

13. (Currently Amended) [[A]] ~~The mesenchymal stem cell obtained according to a method of claim [[10]]12 wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.~~

14. (Currently Amended) A pharmaceutical preparation comprising a mesenchymal stem cell ~~obtained according to a method comprising~~
~~performing density gradient centrifugation on bone marrow; and~~

isolating human mesenchymal stem cells from a fraction having a density of 1.050-1.070 g/ml according to claim 11.

15. (Currently Amended) [[A]] The pharmaceutical preparation comprising a mesenchymal stem cell according to of claim [[12]]¹⁴ wherein said performing uses an isotonic solution of Ficoll® or Percoll®.

16. (Currently Amended) [[A]] The pharmaceutical preparation comprising a mesenchymal stem cell according to of claim [[13]]¹⁵ wherein said isotonic solution is Percoll® and said density is 1.068 g/ml.

17. (Currently Amended) A method of manufacturing a The pharmaceutical preparation of claim 14 further comprising formulating isolated mesenchymal stem cells according to claim 1 and a pharmaceutically acceptable excipient and/or carrier.

18. (Currently Amended) A method of manufacturing a The pharmaceutical preparation of claim 15 further comprising formulating isolated mesenchymal stem cells according to claim 2 and a pharmaceutically acceptable excipient and/or carrier.

19. (Currently Amended) A method of manufacturing a The pharmaceutical preparation of claim 16 further comprising formulating isolated mesenchymal stem cells according to claim 3 and a pharmaceutically acceptable excipient and/or carrier.

20. (Previously Presented) A method of isolating mesenchymal stem cells from bone marrow comprising performing density gradient centrifugation using a solution of Ficoll® or Percoll® with a density of 1.068 g/ml.